

Clinical Trial Protocol

Iranian Registry of Clinical Trials

06 Jul 2026

Comparative Survey of Left Ventricular Diastolic Function in CAD Patients Before and After PCI

Protocol summary

Summary

The aim of this study is to evaluate the effect of percutaneous coronary intervention (PCI) on diastolic function in patients with known coronary artery disease (CAD). 51 patients who have been candidates for PCI because of CAD; with left ventricular ejection fraction > 30% and any degree of diastolic dysfunction (grade 1-4) and no left ventricular hypertrophy (LVH), uncontrolled hypertension (resting blood pressure > 140/90 mm hg), Atrial fibrillation rhythm, hypertrophic cardiomyopathy, elevated Cr level, bundle branch or complete heart block, severe ventricular arrhythmias, severe valvular heart diseases, cardiac pacemakers and or prior coronary artery bypass graft surgery; preexamined by transthoracic echocardiography and diastolic indexes such as Isovolumic relaxation time (IVRT); Deceleration Time (DT); Transmitral flow velocity with atrial contraction duration/Flow from left atrium to pulmonary veins during atrial contraction duration (Mitral A duration/Pulmonary veins A duration); Early diastolic transmitral flow velocity/Velocity of early diastolic mitral annular motion (E/Ea); Pulmonary veins systolic flow/Pulmonary veins diastolic flow (PVs/PVd); Early diastolic transmitral flow velocity/Transmitral flow velocity with atrial contraction (E/A) were measured. Then patients underwent PCI. The diastolic indexes were reevaluated and recorded in forms three months after PCI and analyzed by statistic methods.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201111238182N1**
Registration date: **2011-12-01, 1390/09/10**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2011-12-01, 1390/09/10

Registrant information

Name

Sayyid Mokhtar Javdan Nezhad

Name of organization / entity

Kermanshah University of Medical Sciences and Health Services

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Recruitment status

Recruitment complete

Funding source

Kermanshah University of Medical Sciences, Vice-chancellor for Research and technology

Expected recruitment start date

2011-11-16, 1390/08/25

Expected recruitment end date

2012-04-13, 1391/01/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparative Survey of Left Ventricular Diastolic Function in CAD Patients Before and After PCI

Public title

The Efficacy Of percutaneous coronary intervention (PCI) on diastolic function in patients with coronary artery disease.

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Pre PCI known CAD patients with any degree of diastolic dysfunction (grade 1 to 4) and LVEF>30% by echocardiography. Exclusion criteria: left ventricular hypertrophy (LVH) , uncontrolled hypertension (resting blood pressure>140/90 mm hg), Atrial fibrillation rhythm, hypertrophic cardiomyopathy, elevated Cr level, bundle branch or complete heart block, severe ventricular arrhythmias, severe valvular heart diseases, cardiac pacemakers and prior coronary artery bypass graft surgery

Age

No age limit

Gender

Both

Phase

0

Groups that have been masked

No information

Sample size

Target sample size: 51

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Kermanshah university of medical sciences and health services

Street address

Shahid Beheshti blvd

City

Kermanshah

Postal code

Approval date

2011-11-12, 1390/08/21

Ethics committee reference number

40236

Health conditions studied

1

Description of health condition studied

Heart diastolic dysfunction

ICD-10 code

I30-I52

ICD-10 code description

Other forms of heart disease

Primary outcomes

1

Description

Grade of diastolic dysfunction

Timepoint

before and three months after PCI

Method of measurement

By echocardiography

2

Description

DT

Timepoint

Before and three months after PCI

Method of measurement

By echocardiography

3

Description

IVRT

Timepoint

Before and three months after PCI

Method of measurement

By echocardiography

4

Description

E/A

Timepoint

Before and three months after PCI

Method of measurement

By echocardiography

5

Description

Mitral A duration /PVa duration

Timepoint

Before and three months after PCI

Method of measurement

By echocardiography

6

Description

PVs/PVd

Timepoint

Before and three months after PCI

Method of measurement

By echocardiography

7

Description

E/Ea

Timepoint

Before and three months after PCI

Method of measurement

By echocardiography

Secondary outcomes

1

Description

LVEF

Timepoint

Before And Three months after PCI

Method of measurement

By echocardiography

Intervention groups

1

Description

Percutaneous coronary intervention

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Ali hospital

Full name of responsible person

Sayyid Mokhtar Javdan Nezhad

Street address

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Kermanshah

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Kermanshah university of medical sciences and health services

Full name of responsible person

Dr. Farid Najafi

Street address

Shahid beheshti blvd, Kermanshah university of medical sciences and health services

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Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Vice chancellor for research, Kermanshah university of medical sciences and health services

Proportion provided by this source

100

Public or private sector

empty

Domestic or foreign origin

empty

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

empty

Person responsible for general inquiries

Contact

Name of organization / entity

Kermanshah university of medical sciences and health services

Full name of responsible person

Sayyid Mokhtar Javdan Nezhad

Position

Cardiology resident

Other areas of specialty/work

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Position

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Postal code**Phone****Sharing plan****Deidentified Individual Participant Data Set (IPD)**

empty

Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code

empty

Data Dictionary

empty